

# Report On “Industrial Visit to CIPET”

Held on 22<sup>nd</sup> December 2017

**Organized by**  
Mechanical Department and IQAC-RITE in Association with  
CIPET, Bhubaneswar, Odish

  
Principal  
Radhakrishna Institute of Technology  
and Engineering, Bhubaneswar

## Background:

The Department of Mechanical Engineering of Radhakrishna Institute of Technology & Engineering (RITE), Bhubaneswar organized one day Industrial visit to Central Institute of Plastic Engineering & Technology (CIPET) on 22nd Dec. 2017.

The visit was organized with the prior permission of Honorable. Asst. Director Dr. S. S. Kanungo, Honorable Dean Academics Er. P.C. Das and HOD of Mech. Dept. Prof. Chandrabhanu Malla. Eighteen students of 6th sem. B. Tech(M.E.) and Three students of 6th Sem. B.Tech (EE) have joined this industrial visit. The team was accompanied by HR from CIPET who provided various insights regarding the different stages of manufacturing process of Plastic Processing and its Quality testing. In the CIPET the students had the opportunity of visiting four main sections-

- CAD/CAM lab
- Plastic Processing unit.
- Tool Room
- Quality testing section.

## Details Of Visiting


We started traveling from RITE College campus to CIPET, BBSR at 1:30 pm from our institute bus on 22<sup>nd</sup> December .2017. We reached the CIPET gate. As soon as we reached their security officer take the signature of the whole teams and checked with the metal detector. After that we entered into the manufacturing section of the institute. And got a glance about CIPET in seminar hall organized by their HR department. We visit all the below mentioned section and started back to collage and arrived at 6:30PM to RITE campus.

## CAD/CAM LAB

The Design and CAD/CAM departments of CIPET are facilitated with the latest systems and software for imparting effective training to the students on product and moulding design. The department provides following services to the plastic & allied industries:

- Plastics Product Design & Mould Design
- Product/ Mould design validation
- Generation of CNC Part Programmes
- CAD/CAM software training

In this section we got an ideas regarding various CAD/CAM software and how we can implement them to manufacture a product.

  
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### **The Plastics Processing Unit:**

The Plastics processing department of CIPET is well equipped with both the conventional processing machines as well as modern micro processor controlled processing machines.

- Employment is provided to employee by Job assignments on moulding of Plastics products and proving of moulds.

We were viewed to all below listing machine and their working-

- Injection Molding M/c,
- Automatic Injection Molding M/c
- Semi-Auto Vertical Injection Molding M/c,
- Controlled Blow Molding M/c,
- Extrusion Blown Film M/c
- Two-Roll Mill M/c,
- Heat Sealing M/c,
- Hot Foil Stamping M/c,

### **The Trial Room:**

The Tool Room is well equipped with both Imported CNC machineries as well as the conventional machine

We were viewed to all such machine tool and their working-

- DMG 5 AXIS CNC MILLING MACHINE,
- CNC VERTICAL MILLING MACHINE,
- CNC EDM MACHINE
- CNC WIRE CUT EDM MACHINE
- CNC TURNING MACHINE,
- SURFAC GRINDING MACHINE
- CMM MACHINE,
- CAPSTAN AND TURRET LATHE
- RADIAL DRILLING MACHINE

  
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### Quality Testing Section:

We were exposed to testing department of the CIPET, on plastics materials/ products/ composites testing/inspection.

- Notch Cutter Bending Tools
- Izod, Charpy Impact Tester With Notch Cutter,
- Indentation Hardness Tester
- Hand Operated Hydraulic Press (1.5 Tons)
- UV Weatherometer
- Flammability Test Apparatus

We were exposed to all such above listed technique to test the quality and other properties of the manufactured products.

### Participants:

Students of Mechanical Department (Final year)

Total Students: 22



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**Photographs:**



*K. S. S.*

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